

Contents of Volume 156

Vol. 156 Nos. 1–3

(Special Issue: In Honour of A.W. Neumann)

Editorial

J. Spelt, R. Miller and D. Vollhardt	1
Insights on structural variations of protein adsorption layers on hydrophobic fluorohydrocarbon polymers gained by spectroscopic ellipsometry (part I)	
C. Werner, K.-J. Eichhorn, K. Grundke, F. Simon, W. Grählert and H.-J. Jacobasch (Dresden, Germany)	3
Characterization of adsorbed protein layers by low-rate dynamic liquid–fluid contact angle measurements using axisymmetric drop shape analysis (part II)	
K. Grundke, C. Werner, K. Pöschel and H.-J. Jacobasch (Dresden, Germany)	19
Adsorption and micellisation of partially- and fully-fluorinated surfactants	
A. Downer, J. Eastoe (Bristol, UK), A.R. Pitt (Harrow, UK), J. Penfold and R.K. Heenan (Chilton, UK)	33
Investigation of the oscillating bubble technique for the determination of interfacial dilatational properties	
T.D. Karapantsios (Volos, Greece) and M. Kostoglou (Thessaloniki, Greece)	49
PEO-brush at the liquid/gas interface	
R. Sedev (Sofia, Bulgaria)	65
Fine structure of a perturbed wetting triple line	
M.E.R. Shanahan (Evry, France)	71
Three-dimensional instantaneous nucleation in 2-docosylamino-5-nitropyridine monolayers at the air-water interface	
D. Vollhardt (Berlin, Germany)	79
Adhesion at partially restructured polymer surfaces	
R.-Y. Qin and H.P. Schreiber (Montreal, Canada)	85
Adsorption at the alumina–water interface from mixed surfactant solutions	
W. Wang and J.C.T. Kwak (Halifax, NS, Canada)	95
The dynamic behavior of poly(N-isopropylacrylamide) at the air/water interface	
J. Zhang and R. Pelton (Hamilton, ON, Canada)	111
Line tension of simple liquid–liquid–fluid systems	
W. Qu and D. Li (Alberta, Canada)	123
Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces: Part I. Thermodynamics	
E.K. Yeh, J. Newman and C.J. Radke (Berkeley, CA, USA)	137
The system water–ethanol–didodecyldimethylammonium bromide. Phase equilibria and vapor pressures	
S.E. Friberg, H. Hasinović, Q. Yin, Z. Zhang and R. Patel (Potsdam, NY, USA)	145
Static and dynamic surface tension of dilute polyelectrolyte solutions	
S.T.A. Regismond (Hamilton, Canada), Z. Policova, A.W. Neumann (Toronto, Canada), E.D. Goddard (Manahawkin, USA) and F.M. Winnik (Hamilton, Canada)	157
Automation of the axisymmetric drop shape analysis-diameter for contact angle measurements	
J.M. Alvarez, A. Amirfazli and A.W. Neumann (Toronto, Canada)	163
Physics of contact angle measurement	
E.L. Decker, B. Frank, Y. Suo and S. Garoff (Pittsburgh, PA, USA)	177
The usefulness of the Lifshitz–van der Waals/acid–base approach for surface tension components and interfacial tensions	
D.Y. Kwok (Cambridge, MA, USA)	191
Surface hydroxylation of polyethylene by plasma polymerization of allyl alcohol and subsequent silylation	
B.M. Wickson and J.L. Brash (Hamilton, Canada)	201
Reflection–absorption FT–IR spectroscopy of vinyl octadecanoate at the air/water interface	
B.F. Sinnamon (Brisbane, Australia), R.A. Dluhy (Athens, GA, USA) and G.T. Barnes (Brisbane, Australia)	215
A new model for a better understanding of the cohesion of hardened hydraulic materials	
J. Chappuis (Saint Quentin Fallavier, France)	223
Wetting films on locally heterogeneous surfaces: hydrophilic surface with hydrophobic spots	
V.M. Starov and N.V. Churaev (Moscow, Russian Federation)	243
Charge transport as suitable tool to study near-percolation phenomena	
H.-F. Eicke, W. Meier and H. Hammerich (Basel, Switzerland)	249
Electrorheological effects in suspensions of hydrophobically modified saponite	
T. Dürschmidt and H. Hoffmann (Bayreuth, Germany)	257
The relation between Young's equilibrium contact angle and the hysteresis on rough paraffin wax surfaces	
H. Kamusewitz (Teltow, Germany), W. Possart (Saarbrücken, Germany) and D. Paul (Teltow, Germany)	271

Characteristic two-step phase transitions in chloro(dimethyl)(octadecyl)silane monolayers following Ostwald's step rule K.-i. Iimura and T. Kato (Utsunomiya, Japan)	281
Stability of colloidal silica, sikron and polystyrene latex influenced by the adsorption of polycations of different charge density D. Bauer (Garching, Germany), H. Buchhammer (Dresden, Germany), A. Fuchs (Garching, Germany), W. Jaeger (Teltow, Germany), E. Killmann (Garching, Germany), K. Lunkwitz (Dresden, Germany), R. Rehmet (Garching, Germany) and S. Schwarz (Dresden, Germany)	291
Characterisation of adsorbed polymer film structure by dynamic surface tension and dilational elasticity B.A. Noskov, D.A. Alexandrov (St. Petersburg-Starij Petergof, Russian Federation), G. Loglio (Firenze, Italy) and R. Miller (Berlin-Adlershof, Germany)	307
Classification of line tension A.I. Rusanov (St. Petersburg, Russia)	315
Some new observations on line tension of microscopic droplets K.W. Stöckelhuber (Freiberg, Germany), B. Radoev (Sofia, Bulgaria) and H.J. Schulze (Freiberg, Germany)	323
Sorption hysteresis of pyrene on zeolite J. Schlüpen, F.-H. Haegel, J. Kuhlmann, H. Geisler and M.J. Schwuger (Jülich, Germany)	335
Liquid metal embrittlement in the absence of liquid metal phase: in studies of surface damageability and in hard materials machining I.V. Vidsensky, E.D. Shchukin, V.I. Savenko, I.V. Petrova and Z.I. Polukarova (Moscow, Russia)	349
The effect of short-chain cationic polymers on the deposition of wood resin emulsion droplets on silica surfaces J. Kekkonen and P. Stenius (HUT, Finland)	357
Relation between Young's Modulus of set plaster and complete wetting of grain boundaries by water E. Badens, S. Veessler, R. Boistelle and D. Chatain (Marseille, France)	373
Apparent contact angles on rough surfaces: the Wenzel equation revisited G. Wolansky and A. Marmur (Haifa, Israel)	381
Adsorption kinetics of ionic surfactants with detailed account for the electrostatic interactions: effect of the added electrolyte K.D. Danov, P.M. Vlahovska, P.A. Kralchevsky (Sofia, Bulgaria), G. Broze (Milmort, Belgium) and A. Mehreteab (Piscataway, NJ, USA)	389
The surface tension of pure liquids: Thermodynamic components and corresponding states J. Lyklema (Wageningen, The Netherlands)	413
Generalised line tension theory revisited V.G. Babak (Moscow, Russia)	423
Oscillating bubble tensiometer: application for studying the interfacial properties of clouds and aerosols G. Loglio (Florence, Italy), B. Noskov (St. Petersburg, Russian Federation), P. Pandolfini (Florence, Italy), J. Krägel (Berlin, Germany) and U. Tesei (Florence, Italy)	449
Molecular reorientation in the adsorption of some C_iE_j at the water-air interface L. Liggieri, M. Ferrari, A. Massa and F. Ravera (Genoa, Italy)	455
Liquid contents in foams formed from solutions of n-pentanol, n-hexanol, n-pentanoic and n-hexanoic acids K. Małysa (Cracow, Poland)	465
The relation between stability of asymmetric films of the liquid/liquid/gas type, spreading coefficient and surface pressure P.M. Kruglyakov and N.G. Vilkova (Penza, Russian Federation)	475
MD-simulation study of the hydrophobic hydration of nonionic surfactants D. Paschek (Dortmund, Germany), T. Engels (Düsseldorf, Germany), A. Geiger (Dortmund, Germany) and W. von Rybinski (Düsseldorf, Germany)	489
Wetting behaviour of silanized glass microspheres at water-air interfaces: a Wilhelmy film balance study Z. Hórvölgyi, M. Máté, A. Dániel and J. Szalma (Budapest, Hungary)	501
Axisymmetric drop shape analysis as penetration film balance applied at liquid-liquid interfaces H.A. Wege, J.A. Holgado-Terriza (Granada, Spain), A.W. Neumann (Toronto, Canada) and M.A. Cabrerizo-Vilchez (Granada, Spain)	509
Determination of line tensions from the capillary rise in a conical tube W.C. Jensen and D. Li (Edmonton, Canada)	519
Equilibrium configurations of liquid droplets on solid surfaces under the influence of thin-film forces: Part II. Shape calculations E.K. Yeh, J. Newman and C.J. Radke (Berkeley, CA, USA)	525
Surfactants role on the deformation of colliding small bubbles D.S. Valkovska, K.D. Danov and I.B. Ivanov (Sofia, Bulgaria)	547
A structure-property study of the dynamic surface tension of three acetylenic diol surfactants J.K. Ferri and K.J. Stebe (Baltimore, MD, USA)	567

Measurement of ultralow interfacial tension with ADSA using an entropic edge-detector

J.A. Holgado-Terriza, J.F. Gómez-Lopera (Granada, Spain), P.L. Luque-Escamilla (Linares, Spain), C. Atae-Allah and
M.A. Cabrerizo-Vilchez (Granada, Spain)

579

Calendar 587

Author Index 589

Subject Index 591

Volume Contents 595

